Automatic machine for cutting brick clay. Stroi.mat.,izdel.1 konstr. 2 no.6:22-23 Je '56. (KLRA 9:8)

(Brickmaking machinery)

BARDYSHEV, I.I.; SKRIGAN, A.I.; ROMAN, L.V.; KOST'YANOVA; S.S.

Chemical composition of dry-distilled turpentine obtained from pine stumps which remained in peat deposits for a thousand years. Zhur. prikl. khim. 34 no.2:440-445 F 161. (MIRA 14:2)

1. Belorusskiy lesotekhnicheskiy institut imeni S.M.Kirova i Institut fiziko-brganicheskoy khimii AN BSSR. (Turpentine)

KISIYAKONSKAYA, NUM-

32-2-58/60

AUTHORS:

Kostyanovskaya, N. H., Babayev, M. V.

TITLE:

The Determination of Copper, Bismuth, Tin, Antimony, Arsonic and Lead in Ferrotungaten (Opredeleniye medi, vismuta, olova,

sur'my, mysh'yaka i svintsa v ferrovol'frame)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 2, pp. 254-255 (USSR)

ABSTRACT:

More expedite methods of the determination of the elements mentioned in the title are applied in the Laboratory of the Institute for Ferrous Alloys in Chelyabin. The exact course of analysis of every method of determination is given, according to which copper is determined idiometrically, tin by means of the usual iodide method with an accuracy of \pm 0,01 %, arsenic by means of the method of Gutzeit, bismuth by means of tin chloride and calium iodide by color comparison with a standard sample containing a specified amount of bismuth, antimony colorimetrically, where stress is laid upon the sequence of the addition of reaction components, and lead by color comparison with a standard sample containing molybdenum. All these determination methods were already described

Card 1/2

32-2-58/60

The Determination of Copper, Bismuth, Tin, Antimony, Arsenic and Lead in Ferrotungsten

by S. Yu. Faynberg (reference 1). There is 1 reference, which is Slavic.

ASSOCIATION: Chelyabinsk Ferroalloys Works (Chelyabinskiy zavod ferrosplayov)

AVAILABLE: Library of Congress

3. Tin-Determination

1. Copper-Determination 2. Bismuth-Determination 3. Tin-Determination 4. Antimony-Determination 5. Arsenic-Determination 6. Lead-

Determination 7. Ferrotungsten-Contamination

Card 2/2

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

AUTHORS: Babayev, M. V., Kostyanovskaya, N. M. 807/32-24-10-5 /70

TITLE: The Determination of the Phase Composition of the Cinders

of Silicon Alloys (Ob opredelenii fazovogo sostava shlakov

kremnistykh splavov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1183-1184

(USSR)

ABSTRACT: The data on an ordinary chemical analysis are rather in-

sufficient in characterizing the cinders of silicon alloys.

The components of the phases must be known in order to

gain an insight into the melting technology. In the

laboratory of the works mentioned in the association a method was worked out for determining silicon carbide and silicon oxide (SiO) in cinders. The other ingredients of the cinders are determined according to usual methods. Exact descriptions of the course of the analysis are given for the silicon carbide determination, the determination of the elementary silicon, and of silicon oxide determination. A formula for calculating the silicon oxide- and elementary

silicon content is given as well. In all determinations a

Card 1/2 weighed sample of 0,25 g of the fine-ground cinder was used.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

\$50V/32-24-10-5/70\$ The Determination of the Phase Composition of the Cinders of Silicon Alloys

ASSOCIATION: Chelyabinskiy ferrosplavnyy zavod (Chelyabinsk Farro-Alloys Works)

Card 2/2

KOST YANOVSKIY, I.A.; PRILUTSKIY, G.Ya.; SHTERN, M.A.; GORELIK, G.N.; REZKOVA, F.I.

Introducing a new method for the production of zinc oxide for needs of the paint and other branches of industry. A.K. Evdokimova, M.V.Potapov, A.K.Shakhnazarov. Remarks by I.A. Kostianovskii and others. Authors' response. TSvet.met. 35 (MIRA 16:2) no.12:69-72 D '62.

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy nikelevoy promyshlennosti (for Kost'yanovskiya, Prilutskiy).
2. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut lakokrasochnoy promyshlennosti (for Shtern, Gorelik). 3. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy promyshlennosti tsvetnoy metallurgii (for Rezkova). (Evdokimova, A.K.) (Zinc oxide)

(Potapov.M.V.) (Shakhnazarov.A.K.)

KOSTYANOVSKIY, R.G.; PROKOF'YEV, A.K.

Aminomethylstannanes. Izv. AN SSSR Ser. khim. no.1:175-178 '65.

Izv. AN SSSR Ser. khim. no.1:175-178 '65.

(MIRA 18:2)

1. Institut khimicheskoy fiziki AN SSSR.

17(10)

SOV/20-127-5-53/58

AUTHORS:

Yarmonenko, S. P., Kostyanovskiy, R. G.

TITLE:

The Effect of Methyl-bis-(β-chloro Ethyl)-amine (HN2) on Frogs

Under Hibernation Conditions

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1125-1127

(USSR)

ABSTRACT:

The chloro ethyl amines, especially HN2 are typically radiomimetic substances (Refs 1,2). They reproduce distinctly the radiobiological effect (Refs 1-8). The analogy in the effect of the radiations and HN2 also concerns the preservatives against the damage caused by them (Ref 9), e.g. the radio preservatives of the mercamine type (Refs 10-14). All that proves the commonness of the concerning mechanisms in certain stages of the biological effect of the two mentioned factors. The authors assume that the radiobiological effect is caused not only by the short-lived radicals (HO2, OH, H), but also by more stable intermediate products of the latter. Therefore, they say that HN2 imitates the effect of these intermediate products. In this connection it is important that the radiation- as well as the radiomimetic effect are based upon certain chemical reactions

Card 1/4

SOV/20-127-5-53/58 The Effect of Methyl-bis-(β -chloro Ethyl)-amine (HN2) on Frogs Under Hibernation Conditions

the rate of which is bound to depend on the temperature. The radiation disease of frogs (Refs 5-17), mice (Refs 18-21), rats (Refs 18,22), Spermophilus (Refs 23,24), and Myoxis (Refs 25-27) develops extremely slowly at 0-12°. The latent period and mortality characteristic of the concerning dose occur at room temperature (Refs 16,25). The data on the temperature dependence of the alkylating agents are very rare; thorough investigations of the effect on the entire organisms are not known to the authors. In the present paper the intoxication course with HN2 at low temperatures was compared with analogous data on the radiation damage (Ref 16). The experiments were carried out with 100 female and male grass frogs (Rana temporaria). The experimental frogs were kept 24 hours before the introduction of HN2 at 0-1, the control animals put into a thermochamber (18-20). Both groups had a biological control (20 intact frogs each of them, kept under analogous conditions). HN2 was introduced as aqueous hydrochloride solution in doses of 40, 60, and 200 mg/kg into the leg muscles of the experimental animals. The control animals died according to the above doses

Card 2/4

The Effect of Methyl-bis-(β-chloro Ethyl)-amine (HN2) on Frogs Under Hibernation Conditions

within the following days: 5-12, 1-3 days, 3-6 hours respectively; or 30 days (animals did not die), 5-12, 3-4 days respectively at low temperature. The frogs treated with 40 mg/kg HN2 showed under the control conditions (18-20°) after 2 days the symptoms of the radiation disease and died after 3-6 days. Figure 1 shows the dynamics of the dying. No satisfactory explanation exists for the time being for the deceleration of the radiation disease by low temperatures. Most of the research workers assumed a deceleration of the metabolism processes. The authors consider the mentioned phenomenon to be unequivocally clarified: the initially mentioned intermediate products react practically instantaneously with the biosubstrate at usual temperatures. The results obtained agree well with several experimental facts (Refs 16,25,30). There are 2 figures and 30 references, 7 of which are Soviet.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)

Card 3/4

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

17 (10,12) AUTHORS:

Kostyanovskiy, R. G., Yarmonenko, S. P. SOV/20-127-6-42/51

TITLE:

A Comparative Analysis of the Biological Effect of Ionizing Radiation and of Methyl-bis-(β-chloroethyl)-amine (HN2) Within

a Large Range of Doses

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1294 - 1296

(USSR)

ABSTRACT:

There is a characteristic dependence of the lifetime of mammals on the irradiation dose (Refs 1,2). Rayewskiy et al distinguish 5 ranges of doses which, in their opinion, reflect independent detrimental mechanisms: they cause the death of test animals

(100-1200; 1200-15,000; 15,000-30,000; 30,000-100,000; >100,000 r). In the second of these ranges, the lifetime is independent of the dose, and is 3-5 days on an average. The lifetime is rapidly reduced with an increase in the dose, and at 100,000 r death occurs during irradiation. From 30,000 r onward, spasms and other symptoms of a detrimental effect on the central nervous system occur. At doses of 20,000-50,000 r, an independent detrimental mechanism - the damage of the nerve centers -

is said to act in contrast to the "peripheral" or "reflex" mechanism, the latter occurring with smaller doses (Refs 3,4).

Card 1/3

A Comparative Analysis of the Biological Effect of 30V/20-127-6-42/51 Ionizing Radiation and of Methyl-bis-(β -chloroethyl)-amine (HN2) Within a Large Range of Doses

In connection with the deliberations previously expressed (Ref 5) by the authors concerning the utility of radiomimetic representation of radiobiological effects, they investigated the detrimental effects by doses of from 1 to 2,000 mg/kg of HN2 administered intraperitoneally to 568 white mice in the form of an aqueous hydrochloride solution (0.1-0.5 ml). Figure 1 shows the dependence of the average lifetime on the HN2-dose as a logarithmic curve, as compared to the Rajewskiycurve (Ref 1). Both curves coincide at one point which corresponds to the minimum, absolutely lethal, doses (750 r and 4 mg/kg). Already a casual comparison of these two curves excludes any doubt about the close relationship of the phenomena represented by them. The blood investigation showed that in the case of HN2-doses lying on the horizontal part of the curve; death occurs in connection with an extensive suppression of blood formation (Table 1). This agrees with the results obtained during the "acutest" form of radiation disease (L. F. Semenov, Ref 3). Besides the above analogies in the character of the two curves, also very interesting differences are found. In

Card 2/3

- A Comparative Analysis of the Biological Effect of SOV/20-127-6-42/51 Ionizing Radiation and of Methyl-bis-(β-chloroethyl)- amine (HN2) Within a Large Range of Doses

spite of these differences, the principal similarity of the two said dependences cannot be denied. Even if the complicacy of the pathological process caused by the HN2-intoxication is considered, 2 leading detrimental mechanisms can be distinguished which bring about the death: a) In the range of the horizontal part of the curve, the detrimental effect on the rapidly dividing tissues, particularly the blood-forming ones, seems to be decisive; b) In the interspaces b and v, the animals die at symptoms of a detrimental effect to the central nervous system. The 5 interspaces by Rayewskiy only reflect 2 mechanisms of the radiation death. The two mechanisms must, however, not be opposed to each other. There are 1 figure, 1 table, and 7 references, 4 of which are Soviet.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)

PRESENTED:

April 6, 1959, by N. N. Semenov, Academician

SUBMITTED:

March 31, 1959

Card 3/3

ZHERNECHENKO, P.G.; GOLOVCHINSKAYA, Ye.S.; KOSTYANOVSKIY, R.G.; KRASNYKH,
I.G.; KUZNETS, Ye.I.; MAGIDSON, O.Yu.; MURASHOVA, V.S.; PASTUKHOVA,
I.S.; PRECBRAZHENSKAYA, M.N.; SUVOROV, N.N.; TER-VARTANYAN, L.S.;
ZHKHINVADZE, K.A.; SHASHKOV, V.S.; SHCHUKINA, M.N.

Role of oxidative deamination in the mechanism of radiation protection afforded by some amines. Zhur.ob.biol. 21 no.2: 157-160 Mr-Ap '60. (MIRA 13:6) (RADIATION PROTECTION)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

AUTHORS:

Rapoport, I. A., Kostyanovskiy, R. G. 18/020/60/131/01/053/060 B011/B009

TITLE:

The Mutation Activity of Some Inhibitors of Cholinesterase

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 1, pp 191 - 194

(USSR)

ABSTRACT:

In the present paper the authors report on their experiments with the isopropyl ester of methylphosphinic acid fluoride (IMPhF). They succeeded in causing hereditary changes in the common fruit fly Drosophila melanogaster (24-48 hour-old larvae as well as full-grown flies) by means of this substance. The insects were exposed to IMPhF vapor after an equilibrium concentration of this substance had been reached in the vessel. In the first experiment series the concentration was 12 mg/l, in the second series 8.5 mg/l. The insects were exposed to the vapor for 3-25 minutes. In the second series a second treatment was carried out. The effect of IMPhF was analyzed with regard to the incidence of mutations according to sex. For this purpose the strain y^{2P} of the common fruit fly, which had been used in several earlier experiments, was used. The male insects of this strain were crossed with females of the strain

Card 1/3

Bcl/white. Table 1 gives the results. The comparison of the re-

The Mutation Activity of Some Inhibitors of Cholinesterase

S/020/60/131/01/053/060 B011/B009

sulting lethal mutations with the incidence of spontaneous mutation in the sex chromosome (1: 700 + 1: 1000) shows that IMPhF is able to increase the incidence of hereditary shifts approximately to the hundredfold. Its effect probably surpasses that of short-wave irradiation. Thus this new transgenation factor is of great interest for industrial (antibiotics production) and agricultural selection. The authors go on to quote exclusively western biochemical papers (Refs 10-24) to cast light on some aspects of the mechanism of intervention of IMPhF into the autocatalysis. These data are of interest particularly in connection with the high cholinesterase content of the cell nuclei (Ref 10), All the data cited permit the assumption that a direct phosphorylation is responsible for the mutagenesis of the chromosome substrate, above all the protein part of the gene. Most probably the substances in question are the amino acids serine and tyrosine. This latter possibility may prove to be the source of a certain specificity of the mutagenic effect. There are 1 table and 24 references, 2 of which are Soviet

Card 2/3

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

The Mutation Activity of Some Inhibitors of Cholinesterase

S/020/60/131/01/053/060 B011/B009

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)

PRESENTED:

September 28, 1959, by N. N. Semenov, Academician

SUBMITTED:

September 17, 1959

Card 3/3

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

KOSTYAHOVSKIY, R.G.

Reaction of ethylenimine with formaldehyde. Dokl. AN SSSR 135 no.4:853-856 '60. (MIRA 13:11)

1. Predstavleno akademikom I.L.Knunyantsem. (Ethylenimine) (Formaldehyde)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310007-5

Anionotropic rearrangement during the reaction of \$\beta\$-chloropropionic acid with phosphoric anhydride. Zhur. ob. khim. 31 no.411402

Ap '61.

(Propionic acid) (Phosphorous oxide)

(Propionic acid) (Phosphorous oxide)

KOSTYANOVSKIY, R.G.

Reaction of ethylenimine with carbonyl compounds. Unkl. AN SSSR (MIRA 14:7)

1. Predstavleno akademikom I.L. Knunyantsem. (Ethylenimine) (Carbonyl compounds)

KOSTYANOVSKIY, R.G.; PAN'SHIN, O.A.; BYSTROV, V.F.

Reaction of N-ethylene iminomethylation. Izv. AN SSSR. Otd.khim. (MIRA 15:6) nauk no.5:931 My 162.

1. Institut khimicheskoy fiziki AN SSSR. (Ethylene) (Methylation)

KOSTYANOVSKIY, R.G.; BYSTROV, V.F.

Dual-character reactivity of N-ethyleneiminocarbinol. Izv.AN SSSR.Otd.khim.nauk no.8:1488-1491 Ag 162. (MIRA 15:8)

1. Institut khimicheskoy fiziki AN SSSR. (Methanol) (Imines)

KOSTYANOVSKIY, R.G.; YUZHAKOVA, O.A.; BYSTROV, V.F.

Reactions of ethyleniminocarbinos with diazo compounds. Izv.AN SSSR. Otd.khim.nauk no.9:1666-1669 S '62. (MIRA 14:10)

1. Institut khimicheskoy fiziki AN SSSR.
(Methanol) (Diazo compounds)

KOSTYANOVSKIY, R.G.; YUZHAKOVA, O.A.

N-ethylenimination of primary amines. Zhur.ob.khim. 32 no.8:2743-2744 Ag 162. (MIRA 15:9)

1. Institut khimicheskoy fiziki AN SSSR. (Amines) (Ethylenimine)

BYSTROV, V. F.; YUZHAKOVA, O. A.; KOSTYANOVSKIY, R. G.

Gammet constants of the ethylenimine cycle. Dokl. AN SSSR 1/7 no.4:843-845 D '62. (MIRA 16:1)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V. N. Kondrat'yevym.

(Ethylenimine) (Heterocyclic compounds)

KOSTYANOVSKIY, R. G.; PAN'SHIN, O. A.

N-piperidinecarbinol. Izv. AN SSSR. Otd. khim. nauk no.1: 182-186 '63. (MIRA 16:1)

1. Institut khimicheskoy fiziki AN SSSR.

(Piperidinemethanol)

KOSTYANOVSKIY, R. G.; BYSTROV, V. F.

 \propto -Aryl-N-ethyleniminocarbinols.Izv. AN SSSR. Otd. khim. nauk no.1:171-173 $\,^{1}\!63$. (MIRA 16:1)

1. Institut khimicheskoy fiziki AN SSSR.
(Ethylenimine) (Carbonyl compounds)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

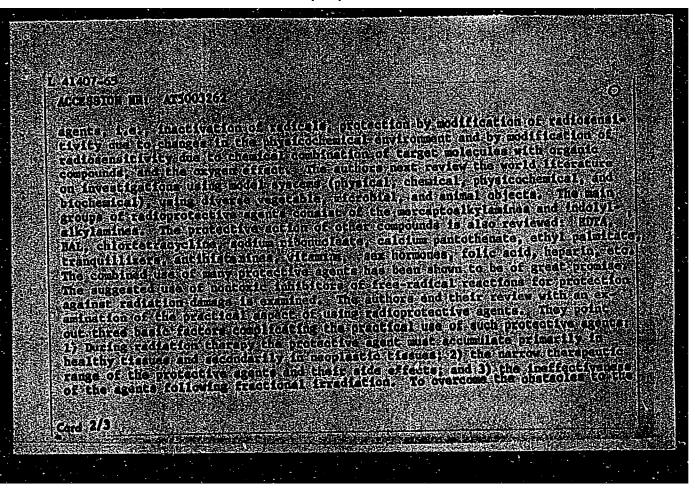
KOSTYANOVSKIY, R.G.; BYSTROV, V.F.

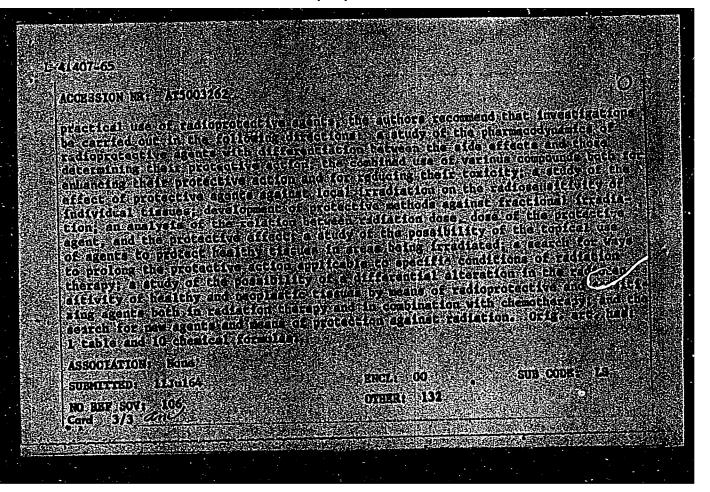
Structure and dual reactivity of N-ethyleneiminocarbinols.

Dokl.AN SSSR 148 no.4:839-842 F '63. (MIRA 16:4)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N.Kondrat'yevym.

(Methanol) (Chemical structure)





KOSTYANOVSKIY, R.G.; PAN'SHIN, O.A.

New method of synthesizing ethylenimine derivatives. Izv. AN SSSR. Ser. khim. no.8:1554 Ag '64. (MIRA 17:9)

1. Institut khimicheskiy fiziki AN SSSR.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5

SOSTIANOV KIT, F.T., TORRESOVA, O.A.

11 kylordene-hos-ethylenizines. Hoki. AM CTOP 100 m., Urlan
145 M fet.

1. hospitos khumcheskoy fizien AM adM. Prade avleso
aksiem kon l.i. Khunyuetsem.

KOSTYANOVSKIY, R.G.; PAN'SHIN, O.A.

Cleavage of asymmetrical heminal amines. Izv. AN SSSR. Ser. khim. 1555, 564, 567 '65. (MIRA 18:5)

1. Institut khimicheskoy fiziki AN SSSR.

KOSTYANOVSKIY, R.G.; PAN'SHIN, O.A.

N, N'-methylene- and benzylidenebisethylenimines. Izv. AN SSSR. Ser. khim. no.3:567-570 '65. (MIRA 18:5)

1. Institut khimicheskoy fiziki AN SSSR.

KOSTYANOVSKIY, R.G.; PAN'SHIN, O.A.

N-alkoxymethyl ethylenimines. Izv. AN SSSR. Ser. khim. no.4:740-743 '65. (MIRA 18:5)

1. Institut khimicheskoy fiziki AN SSSR.

KOSTYANOVSKIY, R.G.: YUZHAKOVA, O.A.; BYSTROV, V.F.

Conjugation of ethylenimine nitrogen with an activated double bond. Zhur. VKHO 10 no.2:229-231 465. (NIRA 18:6)

1. Institut khimicheskoy fiziki AN SSSR.

KOSTYANOVSKIY, R.G.

N-Aoryloyl-ethylenimine. Zhur. VKHO 10 no.2:231-233 (MIRA 18:6)

1. Institut khimicheskoy fiziki AN SSSR.

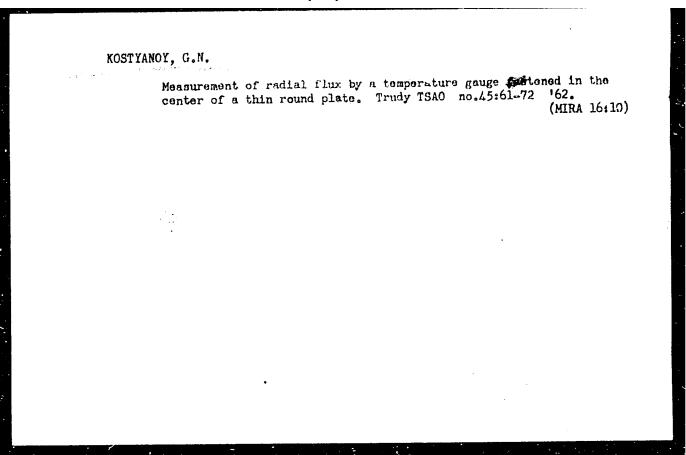
BRYSTROV, V.F.; KOSTYANOVSKIY, R.G.; PAN'SHIN, O.A.; STEPANYANTS, A.U.; UZHAKOVA, O.A.

Three-membered rings. Part 1. Opt. i spektr. 19 no.2: 217-228 Ag '65. (MIRA 18:8)

KOSTYANOVSKIY, R.G.; PROKOF'YEV, A.K.

Three-membered rings with coordination bonds. Dokl. AN SOSR 164 no.5:1054-1057 0 165. (MIRA 18:10)

1. Institut khimicheskoy ficiki AN SASE. Submitted July 1, 1965.



L 18785-63 EWT(1)/BDS AFFTC/ASD/ESD-3 RB ACCESSION NR: AR3006441 S/0124/63/000/008/B117/B117

SOURCE: RZh. Mekhanika, Abs. 8B778

AUTHOR: Kostyanoy, G. N.

TITLE: Radiation error in the measurement of temperature in the free atmosphere by thermal resistors of type MMT-1, and MMT-1,

CITED SOURCE: Tr. Tsentr. aerol. observ., vy*p. 45, 1962, 73-81

TOPIC TAGS: radiation error, temperature measurement, thermal resistor radio sounding, atmospheric measurement, atmospheric temperature

TRANSLATION: The question of radiation errors during the measurement of the temperature of the air by thermoresistances (TRO) which are used in radio sounding of the atmosphere. Formulas are introduced for the calculation of the heating (the difference of temperature of the TR and the surrounding air) for the TR's shielded and unshielded from the sun in the cases when they are oriented horizontally and vertically relative to the surface of the earth. The conditions during which TRs with coverings have the least heating are introduced. Recommendations are made with respect to decreasing the radiation error of the transmitters used for the measurement of the temperature in the free atmosphere. M. S. M. DATE ACQ: 28Aug63

SUB CODE: AS, PH

ENCL: 00

S/050/63/000/001/005/007 D218/D307

AUTHORS:

Kostyanoy, G. N. and Kruglova, A. I.

CITLE:

On the reduction of radiation errors in measurements of the temperature of air by the PK3-1A (RKZ-1A) radio-

sonde

PERIODICAL: Meteorologiya i gidrologiya, no. 1, 1963, 47

TEXT: It has been found that the radiation error may be reduced to 2 - 3 degrees at a height of 30 km by using the MMT-6 (MMT-6) thermistor, instead of the previously employed MMT-1 and by painting it with a white substance consisting mainly of BaSO₄. The MMT-6

has a small diameter (by a factor of 2.5), and hence the convective heat transfer coefficient is larger by a factor of 1.5, so that the radiation error is reduced by an approximately equal factor. The white coating has a reflection coefficient of 85 - 90%, and this gives rise to reduction in the radiation error by a factor of 3 to 4. A modification of the holder, aimed at reducing its effect on

Card 1/2

On the reduction of ...

S/050/63/000/001/005/007 D218/D307

the thermistor, gave rise to a reduction in the radiation error by a factor of 1.2 - 1.5. It is stated that the RKZ-1A radiosonde, incorporating the MMT-6 thermistor, covered with the BaSO₄ coating and mounted on the lighter support, is comparable with, or may even be better than, the "better radiosondes employed abroad".

ASSOCIATION: Tsentralnaya aerologicheskaya observatoriya (Central Aerological Observatory)

Card 2/2

rt(1)/fcc(w)/bds/es(w)_affic/esd-3Pi_4/	Pe-L/Pq-L-OV
<u>10775-63</u> CCESSION NR: AP3003803 2 3/	0050/83/000/007/0047/0049
UTHOR: Kostyanoy, G, N	7/
	/0
TLE: Actinometric radiosome	
OURCE: Meteorologiya i gidrologiya no.	7, 1963, 47-49
OPIC TAGS: meteorological instruments	actinometric redicande
diation balance, balance meter	
BSTRACT: In 1981 an actinometric radios	sonde incorporating the best
atures of non-Soviet instruments and acti	nometers, was designed to
easure <u>long-wave radiation</u> .\ZThe instrum 3-LAAr a.d f o sonde suspended 30 m belo	
e sensing surfaces of the balance meter a eter (the flux and balance sensor) is attac	re horizontal. The balance
om the radiosonde housing. The sensing	surfaces of the meter are not
ielded by the housing and the inertia erro	or is small. The balance
UA-	
2/65	

BELOV, V. P.; GERMAN, A. I.; KOSTYANOY, G. N.; PAKHOMOVA, L. A.

"Balloon and aircraft measurements of short wave radiation."
report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

I 12022-65 BM (1)/BM (T) Pa-7/Pas-2 (W

LOCKSTON IN APPOINCE

8/0050/64/000/001/0029/0031

DIMBER REPORT OF THE PUBLISHER AS

TITLE LOUIDMENTO MELEURISHUE IN the stanephere above the Paulin Ocean

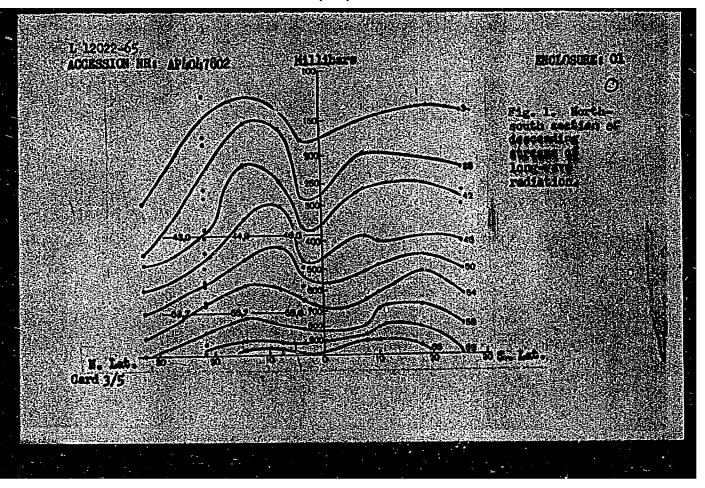
SURCE Meteorologiya i pidrologiya, m. L. 1966, 29-33

TOPIC TAIRS: atacapheric redistion; research stip observation

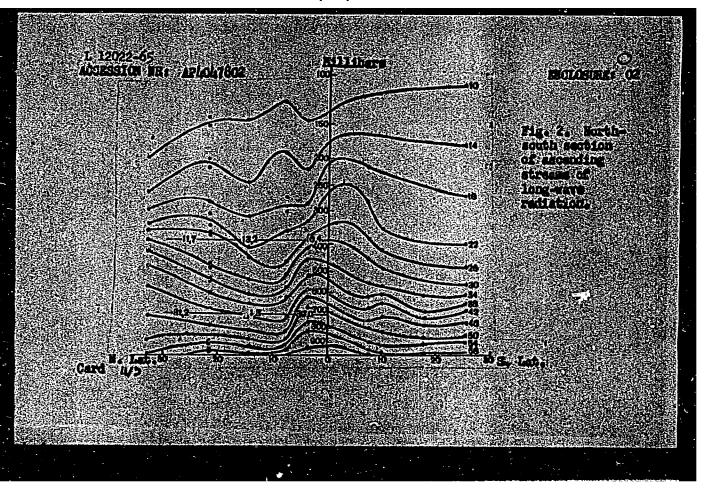
ABSTRACT: The amblors consider the results of orthosetric seesmresents in the atmosphere shore the Pacific Ocean, sale ouring the sevents expedition of the research ship & I. Voyeyaw in issuary farch 962; The data are of intent observations between 32 M Lab and 376 S Lab. One set of measurements yas sade along the 1806h seridian, the other between 150 and 1700 E Long. The data show that the streams of Long-save reliation and the entequive reduction change servedly with law, and Decompting streams of long-save reliation and the entequive reduction thange servedly with law, are in Block allohaly to the morth (10 s Lab) and this stream is not sharply developed at levels of 500 to 200 whithers. Middle corrects increase to boundary of the observations (420 M Lab), the value or resin corrects increase boundary of the observations (420 M Lab). The value or resin corrects also

Cord 1/5

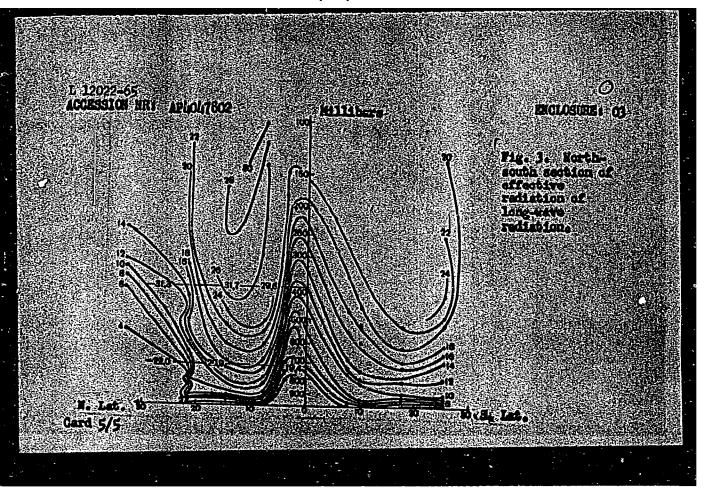
	iri Aplol/1802				i i	20 C 20 C
(at 500 mil redistion Figs. 1-) ation diff for a clear	out process to the lone Ary (Mr. Largy Or, Ary (Mr.		Constant of the constant of th	Constitution of the consti	e of long-rey chrosty (n.	#
MASSOCIATION Observatory				indigities (ins	ecelinaet va Lightig	
SURCITIED (SUB-CODE) Card 2/5		D.9	W 80Y(005		ENDA: (CEREA: Q	



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5"



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5"



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5"

J. ABTAGA PPT() RADGA:

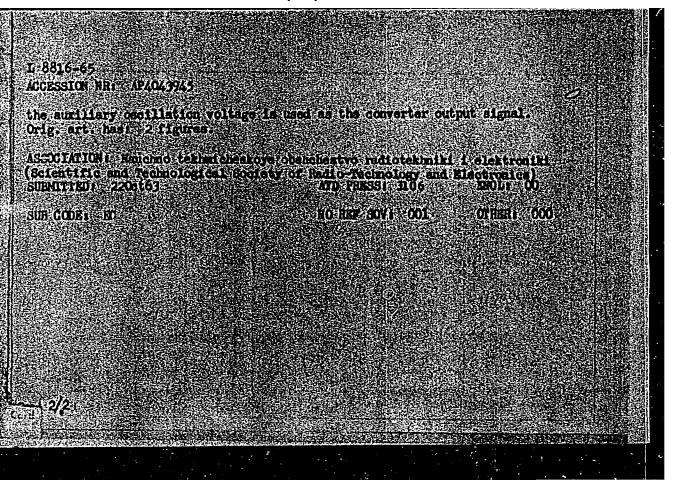
AUTHOR: Mostyanov D. W. Active sember:

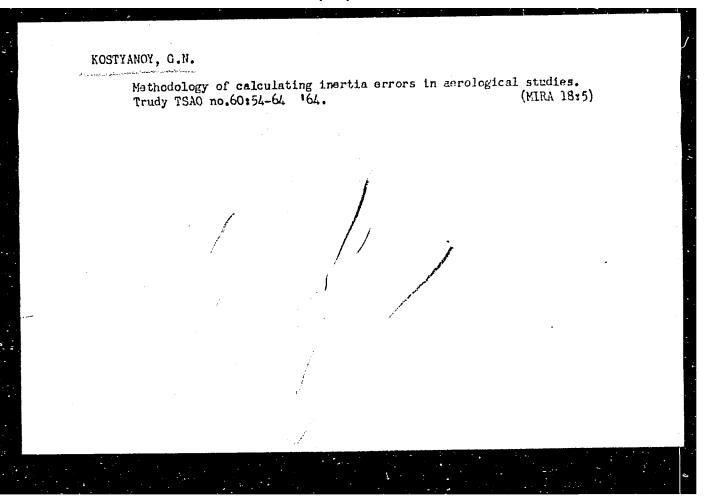
TITIA: Superregenerative converter of pulse signals.

SUBJE: Redictermine, vs. 15p no. 8, 16cts. 22. 4.

TOPIC TAGS: pulse apprregenerative respirat, superregenerative pulse converter; responser; transacter.

ADSTROT: A circuit to be used in times and reporters is newyrich, it may parent reception of short radio pulses (1-10 page) and automatic quanting of the generated pulses for intervals as ADSTROT: A circuit to be used in times (1-10 page) and automatic quanting of the generated pulses for intervals as ADSTROT: A circuit to be used in the generated pulses of intervals as ADSTROT: A circuit to be used in times (30-7-50) (Mee. Collowing every received bulse. In this action is shieved in a minimal common recover which has a supervegue-erative converter of pulse administration of the direction of the input pulse signal of 500 (14c) and dengar, by interval between nulses generated by this circuit depends bully a littly on the direction of the incoming pulse. With a value of incoming converter, a population and descent pulse signals higher than 2000 pulse/sed, the converter operates as a frequency divider, and with 800 to 1000 pulse/sed, for converter is several times (10) to a divide the converter is several times infper than that obtained by the impervegenerative radio receiver because of the converter is several to the converter is several times higher than that obtained by the impervegenerative radio receiver because





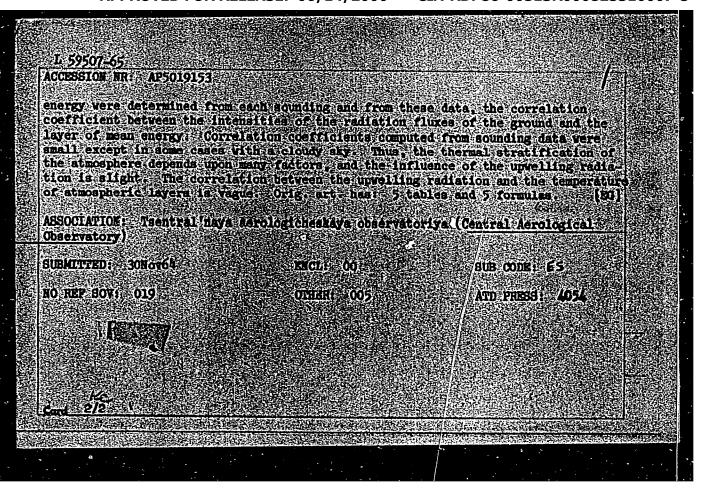
AUTHOR: **Correlation between unwelling fluxes of longwave reliation of the carrit and the temperature of the layer of mean energy

BOURCE: AN SSSR livestiys **Prika etsoefery i cheans, v. 1; no. 7; 1065; 715-721.

**TOPIC TAGE: unwelling longwave reliation troposphere, rediation flux; rediation absorption; water vapor carbon touties, chose correlation coefficient; hear energy layer.

ABSTRACT: The problem of the correlation between the unwelling longwave rediation of the learth and the troposphere and the temperature of the superstime of the same energy layer.

ABSTRACT: The problem of the correlation between the unwelling longwave rediation of the learth and the troposphere and the temperature of the atmospheric layers is studied theoretically a formula its given which expresses the rediation flux as a function of the ground temperature, the temperature distribution in air layers, and the rediation absorption by water vapor, garbon dioxids, and come The correlation coefficient is computed with a granging freet difference in the numerical values of the coefficient point to the against direct distributes in the numerical values of the coefficient point to the against dorrelation even the radiation flux and the air temperature. The leight, temperature, and pressure of the layer of mean the layer of mean.



KOSTYANOY, G.N.

Relation between the upward longwave radiation fluxes from the earth and the troposphere and the temperature of the mean energy level. Izv. AN SSSR. Fiz. atm. i okean. 1 no.7:715-721 J1 '65. (MIRA 18:8)

1. TSentral'naya aerologicheskaya observatoriya.

L 3583-66 EWI(1) GW

ACCESSION NR: AP5021869

UR/0362/65/001/008/0823/0832 551.521.32

AUTHOR: Kostyanov, G. N.

TITLE: On the change in the large wavelength radiation field in the free atmosphere during the winter period

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 8, 1965, 823-832

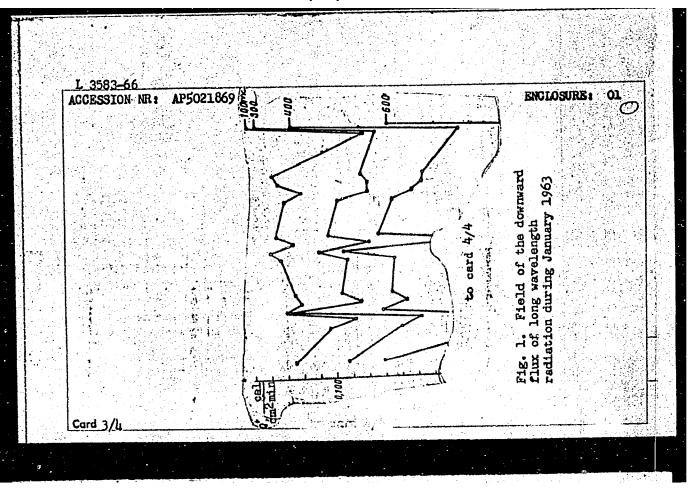
TOPIC TAGS: meteorology, meteorological phenomenon, atmospheric irradiation, actinometry, meteorological balloon

ABSTRACT: An analysis of the actinometric radiosonde data on the large wavelength radiation field; obtained during the month of Jamuary 1963 above the city of Dolgoprudnyy, is presented. The work was undertaken to extend presently available information on the nature of the infrared radiation in the free atmosphere. The data on the air temperature, relative humidity, change in the effective radiation in the troposphere, and on the upward and downward flux of infrared radiation are presented graphically (see Fig. 1 on the Enclosure). Meteorological parameters determined at the time of sounding are tabulated. It is concluded that: 1) the large wavelength radiation field of the free atmosphere during winter conditions

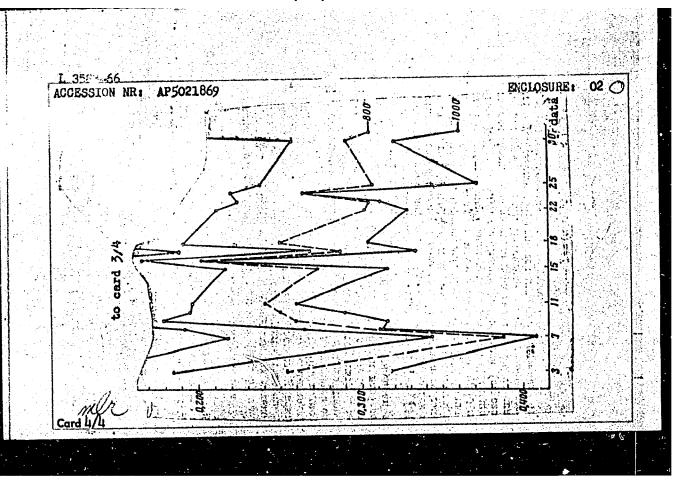
Card 1/4

ADDODATION NO. ADDODES		3
ACCESSION NR: AP5021869		
is chiefly determined by the the atmosphere; 2) apparent	blue a connection AX18GS D8G	MGGII FIIG BATTOHOTO COINTATATA
i ii	k of the atmosphere. N. I.	PRECOAS SIN THE AS DANSON
took part in the actinometr	ic sounding balloon experim	ents. Orig. art. nas: 1
table, 5 graphs, and 1 equa		mive (Central Aerological
ASSOCIATION: Tsentral'naya Observatory)	Weborogicueskala observace	
	ENGL: 02	SUB CODE: ES
SUBMITTED: 25Dec6L		
NO REF SOV: 019	OTHER: 008	
보다 보다 보는 얼마나 있는데 그리 말라고 바쁜	그렇게, 생각수 화측 등록하다는 하는 이 사람이 없는 등 국가의 환흥하다 하다.	

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5



"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825310007-5



L 2172-66 - EWT(1) GW ACCESSION NR: AP5022925

UR/0362/65/001/009/0996/1000 - 551,521,32 40

AUTHOR: Kostyanoy, G. N.

TITLE: Effect of the reflectivity of the underlying surface on longwave radiation fluxes in the free atmosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 9, 1965, 996-1000

TOPIC TAGS: free atmosphere, heat reflection, heat radiation, radiative heat transfer

ABSTRACT: The effect of the reflectivity of the underlying surface is usually neglected in calculations of longwave radiation fluxes in the free atmosphere; however, because of the greater accuracy of experimental studies of the radiation field in the free atmosphere, it has become necessary to evaluate this factor. Two special cases are considered: (1) the surface reflects diffusively in accordance with Lambert's law, and (2) the surface reflects specularly only. For simplicity, it is assumed that the reflectivity in both cases is independent of the direction of propagation of the radiation and of its spectral properties. It Card 1/2

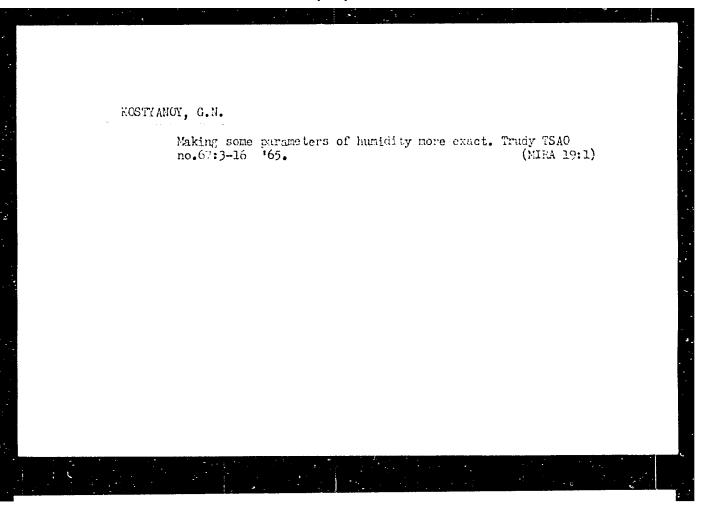
2172-66	and a subject to the first the control of the contr	6
nction for diffuse radio e underlying surface may	curacy of the determination of the ation is considered, the effect of y be neglected in calculations of ree atmosphere above 300—500 m. pful suggestions during review of	integral transmission the reflectivity of the integral longwave "In conclusion, I thank
	ya aerologicheskaya observatoriya	(Central Aerological 44,55
BMITTED: 24Feb65	ENCL: 00	SUB CODE: ES,TD
REF SOV: 004	ÖTHER: 001	

L 01211-56 EWI(1) ACCESSION NR: AP5023681 UR/0050/65/000/010/0029/0032 551.521 AUTHOR: Kostyanov C H TITLE: Correlations of the longwave radiation field with synoptic conditions in the summer SOURCE: Meteorologiya i gidrologiya, no. 10, 1965, 29-32 TOPIC TAGS: actinometric Sounding, upwelling radiation, downwelling radiation, pressure level, temperature stratification, effective radiation, atmospheric layer, troposphere, tropopause, cyclonic activity ABSTRACT: Observation data obtained during actinometric radiation soundings of the atmosphere at Dolgoprudnyv Station, in August 1962 are discussed. The observa-tions were carried out at night at different degrees of cloudiness. The state of upwelling and downwelling radiation is presented graphically in the original article for pressure levels from the ground to the 150-mb level. When the skies are cloudless, the radiation depends upon the distribution of humidity and the stratification of the temperature layers of the atmosphere. The effective radiation in the atmosphere is nearly zero, although upwelling and downwelling radiation show changes.

L 01211-66 ACCESSION NR: AP5023661 The effective radiation in clouds is less than 0.05 cal/cm2 min. Radiation transfer in the upper atmospheric layers is influenced by clouds. Maximum cooling takes place in those atmospheric layers where a strong change of humidity is observed. The rate of cooling at the upper limit of the clouds reaches 1-2 degrees an hour. Beyond the tropopause, the upwelling radiation has the same value in the dry and cool troposphere and the wet and warm troposphere. The downwelling radiation is also determined by the state of the stratification of temperatures and the distribution of humidity in the upper layers of the atmosphere. The downwelling radiation is less intense during anticyclonic states and most effective during cyclonic activity. Orig. art. has: 3 figures and 1 table. [EG] ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory) . 44,55 SUBMITTED: 12Jan65 ENCL: SUB CODE: ES NO REF SOV: OHTER: 002 ATD PRESS: 40 91

KOSTYAHOY, G.N.; PAKHUMOVA, L.A.

Measurement of the coefficient of brightness of the underlying surface and clouds from an airplane. Trudy TSAO no.66:63-72 (MIRA 19:1)



L 10082-67 EWT(1) GW ACC I.A: ALGORY559

SOURCE CODE: UN/0362/66/002/005/0501/0507

AUTHOR: Kostyanoy, G. N.

ORIG: Control Aerological Observatory (Tsentral naya aerologicheskaya observatoriya)

TITLE: Commoction between the radiation temperature of an epaque body and the radiative change in temperature of the medium

SOURCE: AN SSSR, Izvostiya. Fizika atomsfory i okoana, v. 2, no. 5, 1966, 501-507

TOPIC TAGS: solar radiation absorption, thormal absorption, transport equation, optic property, light absorption, atmospheric radiation, atmospheric temperature

ABSTRACT: In view of the use of opaque absorbing bodies for the measurement of radiation, the authors consider the connection between the temperature of a medium and the radiation temperature of a body for which the total incident energy goes only into absorption and reflection, and determine the connection between the temperature of the body and the change in temperature of the medium in which this body is located. The radiation temperature is defined as the temperature rise of

Card 1/2

UDC: 551.52

L 10082-67

ACC NR: AP5027559

a body above its ambient under the influence of radiation from the ambient. By solving the long-wave transport equations, the author obtains the fraction of the incident radiation absorbed by the body which then equated to the equilibrium value of the energy lost by radiation. The conditions under which two opaque bodies placed in the same medium will have the same radiation temperature are found to be that their optical proporties be similar and that the bodies have similar shape. In the case of a spherical body, only similarity of the absorption coefficients is required. It is shown that in order for the opaque body to have the same radiation temperature at any point of the medium, three conditions must be satisfied: a) the optical proporties of the medium must not vary from point to point, b) the optical proportios of the body should vary in accordance with the optical proporties of the medium, c) the body and the medium should be gray. Conditions a) and c) do not hold for the earth's atmosphere, and condition b) cannot be satisfied for obvious reason. It is thus demonstrated that the rate of change of temperature of air cannot be determined from the difference between the temperature of an opaque body placed in the air and the air. It is pointed out on this basis that the deductions presented by J. P. Funk (J. Opt. Soc. Amorica v. 50, no. 10, 1950) and G. N. Plass (J. Moteorol. v. 15, no. 6, 1958) are incorrect. Orig. art. has: 35 formulas.

SUB: CODE: 04, 20/ SUBM DATE: 09Aug65/ ORIG REF: 001/ OTH REF: 006

Card 2/2 1/41

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310007-5

ACC NR. AT7000567

SOURCE CODE: UR/2789/66/000/070/0031/0040

AUTHORS: Kostyanoy, G. N.; Kurilova, Yu. V.

ORG: none

TITLE: On the radiation properties of cloudiness

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 70, 1966. Radiatsionno-opticheskiye i ozonometricheskiye issledovaniya atmosfery (Radiation-optical and ozonometric investigations of the atmosphere), 31-40

TOPIC TAGS: atmospheric cloud, atmospheric radiation, radiosonde, atmospheric humidity

ABSTRACT: The effect of cloudiness on the long wave radiation field of the atmosphere is analyzed on the basis of 30 actinometric radiosonde climbs during the winter season. Fall of these observations correspond to the lower cloud layers: St, Sc, Sc op, Sc trans. The remainder correspond to the cloudiness of frontal systems As-Ns, Frnb. Altitude versus temperature, specific humidity, and upward (Q¹) and downward (Q¹) draft curves are given. A table is prepared showing the distribution of the effective radiation magnitude F in the cloud as a function of stratification temperature (?). These experimental results agree well with theoretical predictions. A second table shows the presence of air-temperature stratification in the field of radiation change. Strong correlations are found between the height of cloud radiation boundary and the

Card 1/2

VDC: 551.521.14

CC NR: AT700 ltitudes dete	rmined by the upward-d	ownward draft rati	os $\frac{\eta_Q^{\frac{1}{2}}}{\gamma_Q^{\frac{1}{2}}}$, by the altit	udes of
iscontinuity rom this it i ields and tha	in the profiles of spe s concluded that the c t the radiation charac art. has: 5 tables a	cific humidity q, loud boundaries ca teristics of the c	and the inversion alti	tude.
UB CODE: 04/	SUBM DATE: 04Feb65/	ORIG REF: 017/	OTH REF: 003	
•	<u> </u>			•
				İ
,	· / / /			
				<u> </u>

"APPROVED FOR RELEASE: 06/14/2000 C

CIA-RDP86-00513R000825310007-5

ACC NR: AT7000568

SOURCE CODE: UR/2789/66/000/070/0041/0057

AUTHORS: Zaytseva, N. A.; Kostyanoy, G. N.

ORG: none

TITLE: Change of the long wave radiation field in the free atmosphere during 7--10 hrs

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 70, 1966. Radiatsionno-opticheskiye i ozonometricheskiye issledovaniya atmosfery (Radiation-optical and ozonometric investigations of the atmosphere), 41-57

TOPIC TAGS: radiosonde, actinometry, atmospheric sounding, atmospheric cloud, atmospheric radiation

ABSTRACT: Changes in the long wave radiation of the earth's atmosphere during a 7--10 hr period are discussed on the basis of actinometric radiosonde data obtained over a series of seven observations at the TsAO Aerological Institute in Dolgoprudyy. The seven radiosonde series are divided into three general groups. The first recorded radiation field changes under cloudless conditions. The second was done under solid cloud cover. The third recorded changes in the radiation field when atmospheric conditions were changing rapidly during the observation. A number of time-plots are given showing the changes in the effective radiation field in the air up to an altitude of 20 km. From these results it is concluded that changes in the long wave

Card 1/2

UDC: 551.552.32

ACC NR: AT7000568

radiation of ascending currents during clear nights and overcast days in the winter do not exceed ± 5--7%. In the troposphere, changes in the downward current do not exceed 10--15%. Furthermore, the effective radiation in the stratosphere changes within the limits of 20--30%. Finally, changes in humidity affect the radiation field in the stratosphere very strongly. Orig. art. has: 6 figures.

SUB CODE: 04/ SUBM DATE: 04Feb65/ ORIG REF: 001

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310007-5

ACC NR. AP7001882

(*N)*

SOUNCE CODE: UR/0362/66/002/012/1235/1252

AUTHORS: Zaytseva, N. A.; Kostyanoy, G. N.

ORG: Central Aerological Observatory (Tsentral naya aerologicheskaya observatoriya)

TITLE: Meridional change in the long-wave field of radiation in the atmosphere above the Pacific Ocean (from weather-ship data)

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 12, 1966, 1235-1252

TOPIC TAGS: heat radiation, research ship, atmospheric radiation

ABSINACT: The authors have analyzed meridional cross sections of the long-wave radiation field, using data of radiometric soundings from the weather ships A. I. Voyeykov and Yu. N. Shokal'skiy during May and June 1965. Some aspects of the distribution of radiation currents in the free atmosphere above the Pacific Ocean are discussed. The data are tabulated and the distributions are represented in figures. These show that the meridional course of effective radiation here observed is in good agreement with previous determinations, except for a maximum near 2° S lat. at a height of 10 km. It is noted that there is a great difference in heat influx in the troposphere at latitudes 15--25° N from that at the equator: 0.175 versus 0.100 cal/cm² min. This causes radiation cooling of the troposphere of 1.1 and 0.6° per day, respectively. The sharpest changes in actinometric and aerological parameters

Card 1/2

UDC: 551.521.2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310007-5"

C NR: AP7001882	.0	. ad0 a latitudos ar	d this zone needs	
the free atmosphe	ere occur between 15° N an	occang and on land.	Orig. art. has: 5	
ecial study, all	LOUIST ONG HOT THE	Octobrio and and		
gures and 9 table	3 •		OTH REF: 008	
B CODE: OL/	SUBH DATE: 07Apr66/	ORIG REF: OII/	Official Control	
D 00DD 0-47			·	
			•	
		•		
			· ·	
			ent.	
			•	
	• • • • • • • • • • • • • • • • • • •		•	
			· ·	

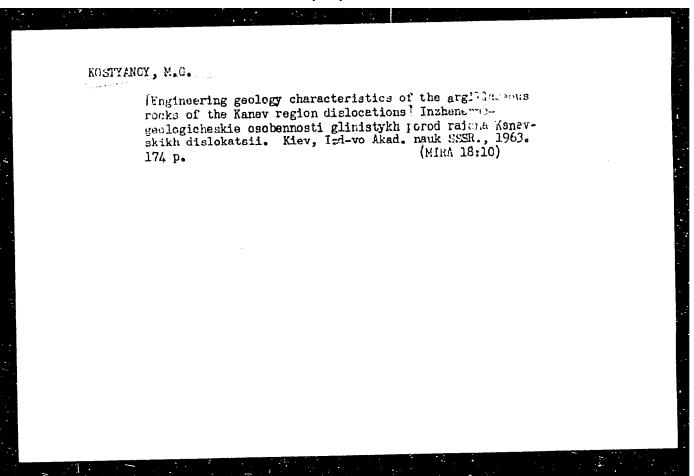
L 14023-66 EWT(1)/FCC UR/2789/65/000/066/0063/0072 SOURCE CODE: ACC NR: AT6005153 AUTHOR: Kostyanoy, I. N.; Pakhomova, L. A. ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya) TITLE: Measurements of the brightness coefficient of the ground and clouds from an airplane SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 66, 1965. Aerosinopticheskiye i aerologicheskiye issledovaniya (Aerosynoptic and aerological research), 63-72 TOPIC TAGS: reflected light, incident light, albedo, Lumbert law, brightness coefficient, downwelling radiation ABSTRACT: The reflection ability of a surface is usually characterized by the albedo which is a ratio of the incident light to the light reflected in all directions. The brightness coefficient can be used instead of the albedo. The former is a ratio of the surface brightness to the brightness of an absolutely white surface determined Lambert's law. The brightness coefficient differs from the albedo, being equal to it only when a Lambert's surface is used. The brightness coefficient for various natural surfaces was determined from aerological and actinometric observation data obtained by airplane flights to a height of 6 km. The downwelling radiation was measured by Yanishevskiy's pyranometer located on the airplane, and the reflected ra-Card 1/2 0

L 14023-66

ACC NR: AT6005153

diation was measured by a special instrument fastened beneath the airplane. The reflected radiation was measured in absolute units. Flights took place above different ground and cloud areas. Brightness coefficients computed from observation data obtained from the ground and from reservoirs in the Crimean, Don, and Volgograd steppes and in the Caspian Sea region were compiled in seven tables presented in the original article. Coefficients computed from data obtained above water surfaces were represented graphically. The greatest brightness coefficient was found above regions of yellow sand and harvested crops on fields. Orig. art. has: 9 tables, 4 figures, [EG] and 3 formulas.

ATD PRESS: OTH REF: 001/ SUBM DATE: none/ ORIG REF: 004/ 4196 SUB CODE: 04/



KOSTYANOY, Mikhail Grigor'yevich; BABINETS, A.Ye., doktor geol.-mineral.nauk, otv.red.; LYAL'KO, V.I., red.izd-va; BEREZOVSKAYA, D.N., tekhn.red.

[Characteristics of clay rocks in the regions of the Kanev dislocations from the viewpoint of engineering geology] Inzhenerno-geologicheskie osobennosti glinistykh porod raiona Kanevskikh dislokatsii. Kiev, Izd-vo Akad. nauk USSR, 1963. 173 p. (Akademiia nauk URSR. Kiev. Instytut geologichnykh nauk. [Trudy]. Seriia gidrogeologii i inzhenernoi geologii, no.10).

KOSTYANOY, M.G. [Kostianoi, M.H.]

Mesozoic and Cenozoic water-clay relationship of the Kanev dislocation belt from the point of view of engineering geology. Trudy Inst.geol.-nauk AN URSR Ser.gidrogeol.i inzh.geol. no.8:52-83 '62. (MIRA 15:7) (Ukraine-Engineering geology) (Ukraine-Clay)

ACC NRI

SUULUM COMM: UN/0917/66/000/009/0048/0053

AUTHOR: Baranyuk, V. (Brigadiar general; Tank forces); Kostyanoy, N. (Engineer; Colonel; Hero of Soviet Union)

ORG: None

TITLE: Tanks in mountains

SUUNCE: Tekhnika i vooruzheniye, no. 9, 1966, 48-53

(A)

TOPIC TACS: military tank, ground force training

ABSTRACT: A general review of the use of military tanks in mountains is presented on the basis of practical experience and training exercises. The high standard of proficiency attained and maintained by a tank unit (commanded by Lieutenent-Colonel M. Yelizarov) is praised and the names of many of its officers and sergeants are mentioned. The effect of low atmospheric pressure, at high altitudes, on the performance of tank engines is examined. An 8-pet decrease in power of a diesel engine per one kilometer of altitude is mentioned. The increase in fuel consumption at high altitudes is also considered. In general, manipulations with fuel injection and with crankshaft revolutions are not recommended. Due to a more intensive evaporation of water at high altitudes, a stricter control over the water levels in cooling systems and storage batteries is recommended. Careful operation and maintenance of drives and brakes are main subjects of training programs.

Card 1/2

ACC NR: AP6032085

The wear of caterpillar tracks, caused by stones and vibrations, is also discussed and the application of higher maintenance standards are suggested. In conclusion, it is mentioned that the military personnel must undergo special psychological training in order to acquire habits and reactions for operations in high mountains under abnormal conditions. Orig. art. has: 5 photos, 1 table.

SUB CODE: 15/ SUBM DATE: Mone

KOSTYANOY, N.G. [Kostianoi, M.H.]

Effect of connate water on the determination of the specific gravity and some physicomechanical indices of the properties of clay rocks.

Geol.zhur. 21 no.3:65-71 161. (MIRA 14:7)

l. Institut geologicheskikh nauk AN USSR. (Clay)

KOSTYANOY, M.G. [Kostianoi, M.H.]; LYAL'KO, V.I.

Evaluation of the possibilities of the movement of moisture in the aeration zone of the Dnieper-Molochnaya interfluve on the basis of studying the content of connate water. Geol.zhur. 22 no.5:61-66 162. (MIRA 15:12)

1. Institut geologicheskikh nauk AN UkrSSR.
(Dnieper Valley-Water, Underground)
(Molochnaya Valley-Water, Underground)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825310007-5

I. 44402-55 EWT(d)/EWT(m)/EWP(h) ACC NR: SOURCE CODE: UR/9008/65/000/307/0002/0002 AUTHOR: Baranyuk, V. (Major general of tank forces, Hero of the Soviet Union); Kostyanoy, N. (Engineer, Colonel) ORG: none TITLE: Technology is demanding [Better technical training needed for army officersl SOURCE: Krasnaya zvezda, 30 Dec 65, p. 2, col. 1-4 TOPIC TAGS: military personnel, military training ABSTRACT: The author stresses the need to improve technical training of army officer personnel and illustrates it with examples. He adds that lack of time, which forces men to acquire a purely superficial knowledge of equipment, and the inefficiency of the present system of technical training are to blame for this. Regular technical training courses should be organized for officers. The author also states that methodical training of specialist technicians is likewise poorly organized in many units. As a rule, there are no specialized seminars and lectures for directors Card

<u>1. 44402-55</u>				bolieves
technical training and available tra at award of certificates to officers erve as incentive to such studies. In ot obsolete equipment, is also an ob- te blames the central press for the state of the detection and state ommander can and should become a	Refusal by some stacle to impression to the stack of urgenia to the stack of urgenia to the stack of the stac	ne officers to u rovement in tec gently needed to in that any com	hnical trai	ning.
UB CODE: 05, 15/ SUBM DATE:	none/		\$	
OUB CODE: OUR		•	† 1	
•	· ·			
			•	
		i	•	. •
			•	
. "		•		
			-	•

KOSTYANOY, N.G. [Kostianoi, M.H.]

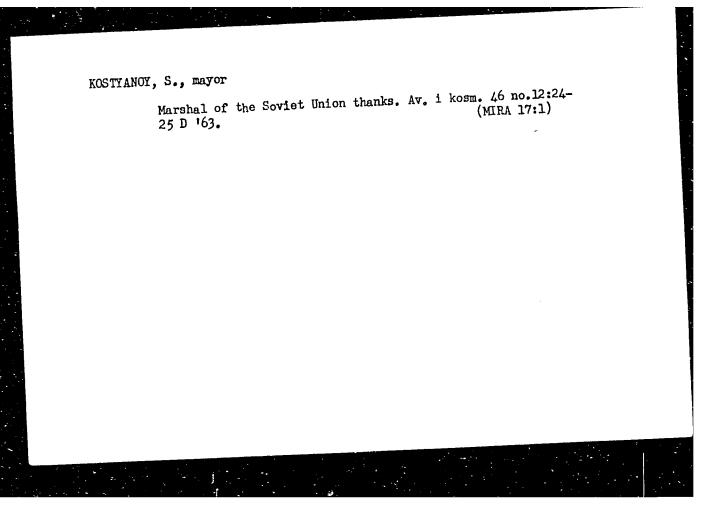
Hydrogeological characteristics of the Kanev dislocated plateau.
(MIRA 14:4)
Geol. zhur. 20 no. 3:76-79 160.
(Kanev plateau-Water, Underground)

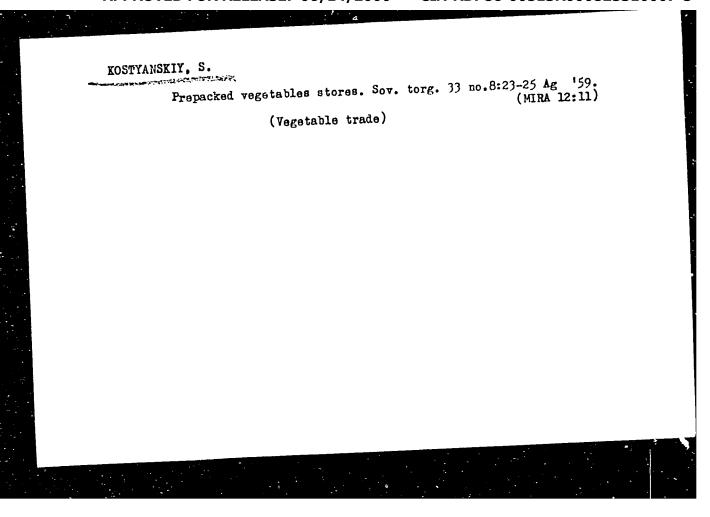
LIKHODED, V.P.; NAZARENKO, I.I.; KOSTYANOY, P.N.

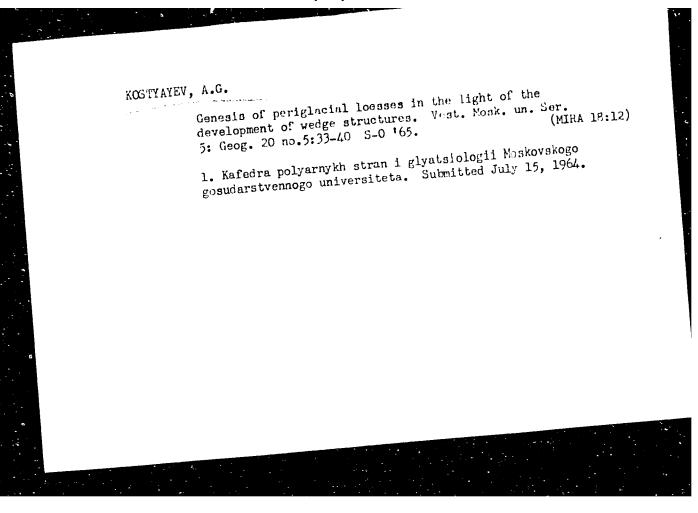
New design of a compressed arc cutter. Mashinostroenie no.4:77-78

Jl-Ag '63.

(MIRA 17:2)







KOSTYAYEV, A.G.

Origin of wedge-shaped bodies in Quaternary sediments. Vest.-Mosk.un.Ser.4:Geol. 17 no.4:55-61 Jl-Ag '62. (MIRA 15:9)

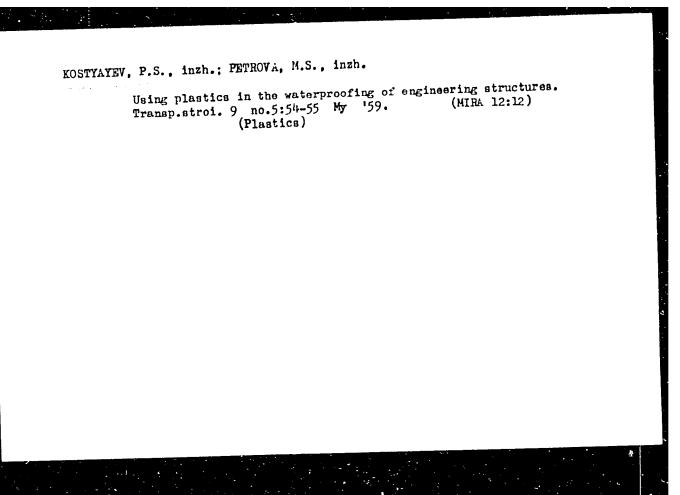
l. Kafedra geografii polyarnykh stran i glyatsiologii Moskovskogo gosudarstvennogo universiteta.

(Geomorphology)

KOSTYAYEV, P.

In the drive for the development of communal animal husbandry. Veterinariia 42 no.7:12-13 Jl 165. (MIRA 18:9)

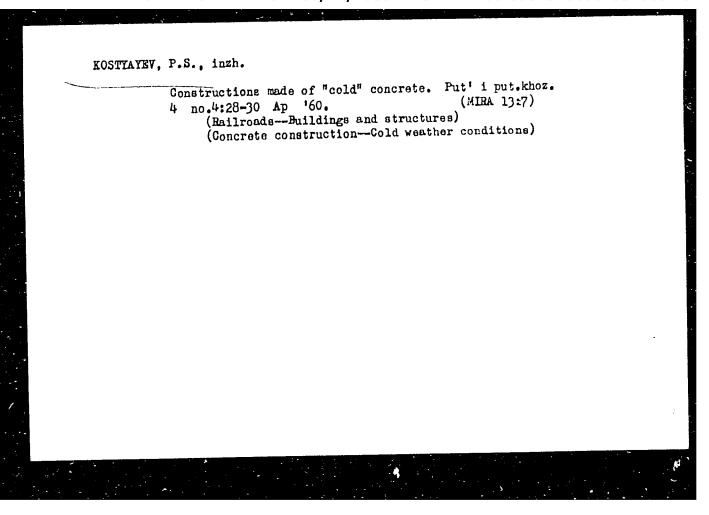
l. Glavnyy veterinarnyy vrach Gorno-Altayakogo oblastnogo upravleniya sel'skogo khozyayatva.

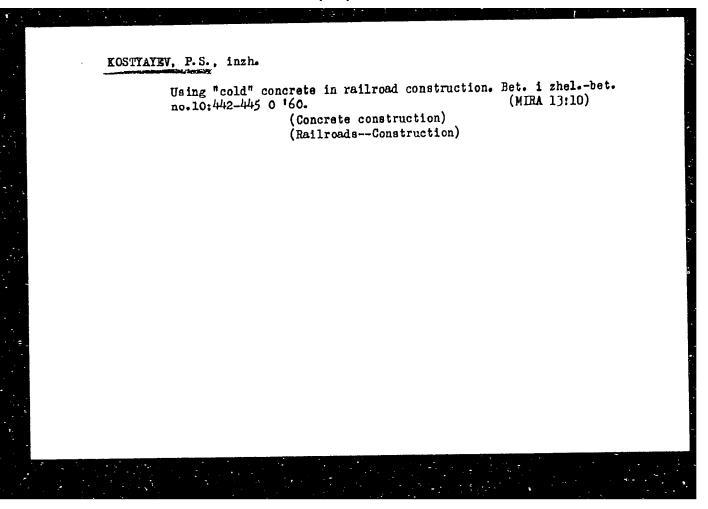


Determining the time for stripping forms of "cold" concrete structures. Transp.stroi. 9 no.12:35-38 D 159.

(Concrete construction--Formwork)

(Concrete construction--Formwork)





SIZOV, V.P., kand.tekhn.nauk; KOSTYAYEV, P.S., inzh.

Waking, laying and taking care of "cold" concrete. Transp. stroi.
10 no.11;31-35 H 160.

(Frost resistant concrete)

MIRA 13;11)

KOSTYAYEV, P. S.

Cand Tech Sci - (diss) "Studies of the effect of technological factors on the quality of cold concrete in railroad synthetic structures. (Under severe climatic conditions)." Moscow, 1961. 22 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Motor Vehicle and Road Inst); 150 copies; price not given; list of author's works on pp 21-22 (10 entries); (KL, 5-61 sup, 190)